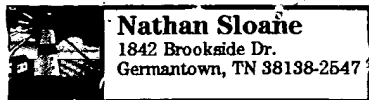


8/986696

Feb 25 '99

Box  
Seq.



#7

Time Plunkett  
3/20/99

Avis Davenport  
Patent Examiner:

Dear Miss Davenport

I'm enclosing the Disc  
that records the partial N-  
terminal amino acid sequence  
of ANCP. The 16 amino acid  
sequence.

Thank you

Nath Sloane

P.S. The notice of Compliance  
will follow.

#08/986,606

Filed 12/08/97 Nathan H. Sloane

*Disc Data*

## THE USE OF THE ACTIVATED N-TERMINAL

### SIXTEEN AMINO ACID PEPTIDE OF THE ANTINEOPLASTIC PROTEIN (ANUP) AS A PHARMACOLOGICALLY ACTIVE ANTI-TUMOR AGENT



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U.S. Application Number 08/641,905 05/02/96 Sloane

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Manuscript received May 20, 1997

#08/986,606 Nathan H. Sloane

In the absence of SDS neither the peptide nor the protein showed any antitumor activity. Thus the detergent is probably necessary to form the correct geometrical shape for activity as described by Sloane and Davis Tumor Targeting (1996) 2, 322-326. The data utilizing P<sub>16</sub> as an antitumor agent against the human breast tumor cell line (MDA 231) are as follows:



	Fraction of the Activity relative to ANUP
P <sub>16</sub> no SDS	± no Activity
P <sub>16</sub> + 0.005% SDS	0.04
P <sub>16</sub> + 0.02% SDS	0.50
P <sub>16</sub> + 0.05% SDS	0.50

I Claim:

1. The use of the 16 L-amino acid peptide representing the partial N-terminal sequence of the antineoplastic protein (ANUP) as a pharmacologically antitumor agent which kills human tumor cells (using the human breast tumor cell line as a model).
2. The sequence of this peptide is: pyroglutamyl-leucinyl-lysiny-cysteinyl-tyrosinyl-threoninyl-cysteinyl-lysiny-glutamyl-prolinyl-methioninyl-threoninyl-serinyl-alaninyl-alaninyl-cysteine.
3. The use of the detergent sodium dodecyl sulfate to activate the 16 amino acid peptide to a form that kills human tumor cells using the human breast tumor cell line as an example.